

Appl. No. 09/806,560
Amendment and/or Response
Reply to Office action of 11 September 2003

Page 2 of 5

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A plasma display screen comprising
a carrier plate,
a transparent front plate,
a rib structure which divides the space between the carrier plate and the front plate into plasma cells, which are filled with a gas, and
comprising one or more electrode arrays on the front plate or on the front plate and the carrier plate to generate corona discharges in the plasma cells, and
comprising a phosphor layer that is configured to emit visible light upon excitation by UV radiation from the corona discharges, and a reflection layer,
characterized in that
the reflection layer is configured to reflect both visible light and UV radiation, and contains a non-metallic powder having a refractive index for the wavelength range from 147 nm to 700 nm of $n = n_{\text{real}} + ik$, where $n > 1.3$ and $k < 0.05$,
said powder having an average grain diameter of ~~400~~ 200 nm $< d < 1000$ nm.
2. (Original) A plasma display screen as claimed in claim 1, characterized in that
the reflection layer has a layer thickness $s > 1 \mu\text{m}$.
3. (Original) A plasma display screen as claimed in claim 1, characterized in that
the gas comprises xenon and that the non-metallic powder is selected from the group formed by MgF_2 , MgO , SiO_2 and Al_2O_3 .

Appl. No. 09/806,560
Amendment and/or Response
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Page 3 of 5

4. (Original) A plasma display screen as claimed in claim 1, characterized in that
the reflection layer is a multilayer.
5. (Newly added) A plasma display screen as claimed in claim 1, wherein
the reflection layer is configured to reflect the UV radiation that is not absorbed by the
phosphor layer back to the phosphor layer to further excite the phosphor layer to emit visible
light.